



# MIROTONE

Leading the way in coating systems since 1938

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## MIROTHANE PU 5650 Pigmented Topcoat

## Technical Data Sheet

MIROTHANE PU 5650 is a user friendly, two pack, fast cure polyurethane topcoat. It has been formulated to have superior resistance to water, general household contaminants, marring and scuffing. Available in a superb full gloss with excellent flow, levelling and distinctiveness of image (DOI) and a fast drying, easy to apply satin finish.

### Product Advantages

- Available in an extensive colour range or tintable to a colour sample
- Excellent flow and levelling results in a smooth even finish.
- With the application of the recommended undercoat or primer may be applied over wood, MDF, melamine, glass, metal and plastic.

### Typical Applications

Interior use only for example interior doors, kitchen & bathroom cabinets, commercial joinery and wall panelling and domestic furniture.

With the appropriate primers may be used to topcoat glass, plastic and metal.

### Product Properties

Build:	Very Good
Sandability:	Good
Vertical Hold Up:	Good
Solvent Resistance:	Excellent
Water Resistance:	Excellent
Levelling & Flow:	Excellent
Sink Back:	Minimal

### Typical Properties

Colour:	White & tinted colours
Gloss:	Satin, Semi Gloss & Full Gloss

**Coverage:** 8 m<sup>2</sup> per litre at 125 micron wet film build. This is dependent on the application equipment / gun set up and the article being coated.

### Mixing Ratio (by volume):

**Satin:** 1 Part 5650/30 Part A + 1 Part 5747 (30%) Part B (1A:1B) or  
(% gloss level) 2 Parts 5650/30 Part A + 1 Part 5728 (40-50%), 5735 (50-60%) Part B (2A:1B)  
3 Parts 5650/30 Part A + 1 Part 5728 (20%), 5735 (25-35%) Part B (3A:1B)

**Semi Gloss:** 1 Part 5650/60 Part A + 1 Part 5747 Part B (1A:1B) or  
3 Parts 5650/60 Part A + 1 Part 5728, 5735 Part B (3A:1B)

**Full Gloss:** 1 Part 5650/FG Part A + 1 Part 5747 or 5780 Part B (1A:1B) or  
2 Parts 5650/FG Part A + 1 Part 5735 or 5757 or 5776 or 5784 or 5789 (2A:1B)

**Pot Life:** Satin & Semi Gloss - > 8 hours  
Full Gloss – 2 – 8 hours

*Pot life varies significantly with ambient temperature, humidity and the quantity mixed. Pot life is longer at lower temperatures and shorter at higher temperatures. The larger the quantity mixed, the shorter the pot life will be. Only mix the quantity required for the job.*

**Thinning:** Satin & Semi Gloss – thin up to 55% with MIROSOL 1217 (Fast), 1263 (Medium), 1266 (Slow) or 1218 (Ultra Slow)  
Full Gloss – thin up to 25% with MIROSOL 1263 (Medium), 1260 or 1266 (Slow) or 1218 (Ultra Slow)

MIROSOL 1281 Matt Promoter may be added to MIROTHANE PU 5650 Satin at an addition rate of 30% to achieve an approximate gloss level of 10-15%.

*In order to maintain consistency of colour and gloss during a job or repeat jobs of the same colour, it is critical to use the same Part B Hardener and thinner throughout. To speed up dry time add up to 3% MIROTHANE PU 5795 Accelerator.*

**Application Viscosity:** 17-20 seconds BS4 Flow Cup at 25°C.

**Wet Film Thickness (WFT):** 125 - 150 microns per coat.

#### **Application Methods:**

Suction Gun: Use 1.5 to 2mm (59-79 thou) orifice with 350-400kpa (50-55 psi).  
Pressure Pot: Use 1.5 to 2mm (59-79 thou) orifice with pressure pot air-cap. Gun pressure 350-400kpa (50-55 psi) and a pot pressure of 45kpa (6 psi) max.  
Airless Spray: Use 0.23 to 0.33mm (9-13 thou) orifice, 15cm fan (dependent on job) with regulated pump pressure of 350-400kpa (50-55 psi).  
Air Mix Guns: Settings similar to airless spray with the air-assisted regulator pressure at 70-90kpa (10-15psi).

**Drying:** Dust Free: 8 minutes  
Touch Dry: 30 minutes  
Sanding: 100 minutes (depending upon temperature)  
Topcoat: Within 24 hours of sanding  
Block Stacking: 24 hours

*Temperatures below 16°C will retard the curing reaction of the product. Drying time is also affected by wet film thickness, the lower the WFT the slower the rate of reaction and the longer the dry time.*

**Recommended Undercoats:** MIROLAC NC 3125 (for subdued gloss level only)  
MIROPOL PE 5110, 5111 or 5130  
MIROTHANE PU 5600, 5626 or 5631

**Application Equipment Clean Up:** Clean all equipment using MIROSOL 1222 or 1286 Thinner

**Shelf Life:** MIROTHANE PU Part A & Part B – 12 months

**Packaging:** MIROTHANE PU Part A – Available in 1 to 16 litres

**Refer to the MIROTHANE PU Product Information Guide for more information.**

#### **Health & Safety**

Before handling, refer to the Material Safety Data Sheet for health and safety information. Ensure that all personnel using this product have read and understood this data sheet and the associated MSDS and packaging label before using this product.